



An ISO 9001:2015
Quality Management System
Certified Company

Test Report
Consistency test

Project Name	PACKAGE 5(1) Improvements of Road Adjacent to Yelahanka Lake From Kenchanahalli to Chowdeshwari temple in Ward No.2. 2)Improvements and Asplating to New post office Main Road and cross roads in Ward no 01. 3)Improvements and Asplating to suggappa layout cross roads in ward No 01. 4)Improvements and Asplating to Shanimahathma swamy temple road and surabi layout 2nd Main and cross Roads in ward No 01. 5)Asplating to Balance Roads in A & B Sector of Yelahanka New Town in Ward No 04)
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-5/1/2017-2018
Mix Type	Plain cement concrete
Contractor	Sri. R.LOKESH
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At Site
Material	Cement
Sample No	1
Date	21-Mar-2018

Sl. No.	Description	Trial 1	Trial 2	Trial 3	Trial 4	Trial 4
1	Weight of Cement	400	400	400	400	400
2	Percentage of water added (%)	27	28.5	29.5	30	30.5
3	Weight of Water (gm)	108	114	118	120	122
4	Initial Reading of Plunger (mm)	40	40	40	40	40
5	Difference (mm)	19	16	11	6.5	5.5

Results: Standard Consistency of Cement: 30.50%

Note:

- The results indicated above are based on the tests carried out on the sample at site.
- The results relate only to the items tested.
- This test report should not be reproduced except in full, without written approval of this laboratory.
- Any query regarding the report must be reported immediately.

Mecadez Core Technologies Pvt Ltd

Authorised Signature



Asst. Executive Engineer
Project Divisor,
Yelahanka Zone
Bangalore



An ISO 9001:2015
Quality Management System
Certified Company



MECADEZ CORE TECHNOLOGIES PRIVATE LIMITED
PROJECT MANAGEMENT & CONSULTANCY SERVICES

Test Report
Fineness test

Project Name	PACKAGE 5(1) Improvements of Road Adjacent to Yelahanka Lake From Kenchanahalli to Chowdeshwari temple in Ward No.2. 2)Improvements and Asplating to New post office Main Road and cross roads in Ward no 01. 3)Improvements and Asplating to suggappa layout cross roads in ward No 01. 4)Improvements and Asplating to Shanimahathma swamy temple road and surabi layout 2nd Main and cross Roads in ward No 01. 5)Asplating to Balance Roads in A & B Sector of Yelahanka New Town in Ward No 04)
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-5/1/2017-2018
Mix Type	Plain cement concrete
Contractor	Sri. R.LOKESH
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At site
Material	Cement
Sample No	1
Date	21-Mar-2018

Sl. No.	Determination	Trial 1	Trial 2
1	Weight of Cement before sieve (gm)	100	100
2	Weight of residue retained on 90um sieve (gm)	5	3.7
3	Percentage retained (%)	5	3.7
4	Average Percentage retained (%)	4.35	

Results: Residue of cement is: 4.35%

Comments: Maximum allowable residue by mass for ordinary portland cement is 10%

Note:

- The results indicated above are based on the tests carried out on the sample at site.
- The results relate only to the items tested.
- This test report should not be reproduced except in full, without written approval of this laboratory.
- Any query regarding the report must be reported immediately.

Mecadez Core Technologies Pvt Ltd

Authorised Signature




Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore



An ISO 9001:2015
Quality Management System
Certified Company



MECADEZ CORE TECHNOLOGIES PRIVATE LIMITED
PROJECT MANAGEMENT & CONSULTANCY SERVICES

Test Report Soundness test

Project Name	PACKAGE 5(1) Improvements of Road Adjacent to Yelahanka Lake From Kenchanahalli to Chowdeshwari temple in Ward No.2. 2)Improvements and Asplating to New post office Main Road and cross roads in Ward no 01. 3)Improvements and Asplating to suggappa layout cross roads in ward No 01. 4)Improvements and Asplating to Shanimahathma swamy temple road and surabi layout 2nd Main and cross Roads in ward No 01. 5)Asplating to Balance Roads in A & B Sector of Yelahanka New Town in Ward No 04)
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-5/1/2017-2018
Mix Type	Plain cement concrete
Contractor	Sri. R.LOKESH
Test Method	IS : 4031 (Part 3) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At Site
Material	Cement
Sample No	1
Date	21-Mar-2018

Sl. No.	Description	Trial 1	Trial 2	Trial 3
1	Initial Distance between the indicator points of Lechatelier mould	11	10	11
2	Final Distance between the indicator points of Lechatelier mould	17	17	15
3	Difference or expansion	6	7	4
4	Average Differences or Expansion in mm	5.67		

Results: Difference in Expansion of Cement: 5.67mm

Comments: Maximum allowable Expansion of cement is 10mm.

Note:

- The results indicated above are based on the tests carried out on the sample at site.
- The results relate only to the items tested.
- This test report should not be reproduced except in full, without written approval of this laboratory.
- Any query regarding the report must be reported immediately.

Mecadez Core Technologies Pvt Ltd

Authorised Signature



Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore



An ISO 9001:2015
Quality Management System
Certified Company



MECADEZ CORE TECHNOLOGIES PRIVATE LIMITED
PROJECT MANAGEMENT & CONSULTANCY SERVICES

Test Report
Compressive strength test

Project Name	PACKAGE 5(1) Improvements of Road Adjacent to Yelahanka Lake From Kenchanahalli to Chowdeshwari temple in Ward No.2. 2)Improvements and Asplating to New post office Main Road and cross roads in Ward no 01. 3)Improvements and Asplating to suggappa layout cross roads in ward No 01. 4)Improvements and Asplating to Shanimahathma swamy temple road and surabi layout 2nd Main and cross Roads in ward No 01. 5)Asplating to Balance Roads in A & B Sector of Yelahanka New Town in Ward No 04)
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-5/1/2017-2018
Mix Type	Plain cement concrete
Contractor	Sri. R.LOKESH
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Cement
Sample No	1
Date	31-Mar-2018

Cube	Cement Grade	Age at Test (Days)	Slump (mm)	Weight (kg)	Dimension (LxWxH)	Density (kg/m3)	Max. Load (KN)	Area (mm2)	Compressive Strength (N/mm2)	Average Sample (n/mm2)
1	43	7	-	0.81	70.6x70.6x70.6	2301.8	182	4984.36	36.51	36.61
2	43	7	-	0.84	70.6x70.6x70.6	2387.1	183	4984.36	36.71	

Results: 7-days Compressive strength of cement is 36.61N/mm²

Comments: 7-days Compressive strength of cement should not be less than 33 N/mm²

Note:

- The results indicated above are based on the tests carried out on the sample at site.
- The results relate only to the items tested.
- This test report should not be reproduced except in full, without written approval of this laboratory.
- Any query regarding the report must be reported immediately.

Mecadez Core Technologies Pvt Ltd



Authorised Signature

Asst. Executive Engineer
Project Division,
Yelahanka Zone
Bangalore



An ISO 9001:2015
Quality Management System
Certified Company



MECADEZ CORE TECHNOLOGIES PRIVATE LIMITED
PROJECT MANAGEMENT & CONSULTANCY SERVICES

Test Report Gradation test

Project Name	PACKAGE 5(1) Improvements of Road Adjacent to Yelahanka Lake From Kenchanahalli to Chowdeshwari temple in Ward No.2. 2)Improvements and Asplating to New post office Main Road and cross roads in Ward no 01. 3)Improvements and Asplating to suggappa layout cross roads in ward No 01. 4)Improvements and Asplating to Shanimahathma swamy temple road and surabi layout 2nd Main and cross Roads in ward No 01. 5)Asplating to Balance Roads in A & B Sector of Yelahanka New Town in Ward No 04)
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-5/1/2017-2018
Mix Type	Plain cement concrete
Contractor	Sri. R.LOKESH
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Fine Aggregates
Sample No	1
Date	21-Mar-2018

Weight of Sample(gram): 200

Sl No.	IS Sieve Size	Weight retained	% retained	% Cumulative	Cumulative % of Passing		Remarks
					% Passing	Gradation. limits	
1	10 mm	0	0.00	0.00	100.00	100	Gradation satisfies the MORT&H Zone II Specification for PQC
2	4.75 mm	13	6.50	6.50	93.50	90-100	
3	2.36 mm	18	9.00	15.50	84.50	75-100	
4	1.18 mm	13	6.50	22.00	78.00	55-90	
5	600 μ	45	22.50	44.50	55.50	35-59	
6	300 μ	57	28.50	73.00	27.00	8-30	
7	150 μ	42	21.00	94.00	6.00	0-10	

Note:

- The results indicated above are based on the tests carried out on the sample at site.
- The results relate only to the items tested.
- This test report should not be reproduced except in full, without written approval of this laboratory.
- Any query regarding the report must be reported immediately.

Mecadez Core Technologies Pvt Ltd

Authorised Signature



Asst. Executive Engineer
Project Division,
Yelahanka Zone
Bangalore



An ISO 9001:2015
Quality Management System
Certified Company



MECADEZ CORE TECHNOLOGIES PRIVATE LIMITED
PROJECT MANAGEMENT & CONSULTANCY SERVICES

Test Report Gradation test

Project Name	PACKAGE 5(1) Improvements of Road Adjacent to Yelahanka Lake From Kenchanahalli to Chowdeshwari temple in Ward No.2. 2)Improvements and Asplating to New post office Main Road and cross roads in Ward no 01. 3)Improvements and Asplating to suggappa layout cross roads in ward No 01. 4)Improvements and Asplating to Shanimahathma swamy temple road and surabi layout 2nd Main and cross Roads in ward No 01. 5)Asplating to Balance Roads in A & B Sector of Yelahanka New Town in Ward No 04)
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-5/1/2017-2018
Mix Type	Plain cement concrete
Contractor	Sri. R.LOKESH
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse aggregates
Sample No	1
Date	21-Mar-2018

Weight of Sample: 4000 gms

Sl. No	I.S. Sieve size	Weight Retained (gm)	Percentage of weight Retained (%)	Percentage of weight retained (%)	Passing		Remarks
					Test Result	Gradation Limits as per	
1	31.50	0	0.00	0.00	100.00	100	
2	26.50	492	12.30	12.30	87.70	85-95	
3	19.00	320	8.00	20.30	79.70	68-88	
4	9.50	635	15.88	36.18	63.83	45-65	
5	4.75	420	10.50	46.68	53.33	30-55	
6	0.60	950	23.75	70.43	29.58	8-30	
7	0.15	850	21.25	91.68	8.33	5-15	
8	0.08	250	6.25	97.93	2.08	0-5	

Note:

- The results indicated above are based on the tests carried out on the sample at site.
- The results relate only to the items tested.
- This test report should not be reproduced except in full, without written approval of this laboratory.
- Any query regarding the report must be reported immediately.

Mecadez Core Technologies Pvt Ltd

Authorised Signature



[Handwritten Signature]

[Handwritten Signature]
Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore



An ISO 9001:2015
Quality Management System
Certified Company

Test Report
Water absorption test

Project Name	PACKAGE 5(1) Improvements of Road Adjacent to Yelahanka Lake From Kenchanahalli to Chowdeshwari temple in Ward No.2. 2)Improvements and Asplating to New post office Main Road and cross roads in Ward no 01. 3)Improvements and Asplating to suggappa layout cross roads in ward No 01. 4)Improvements and Asplating to Shanimahathma swamy temple road and surabi layout 2nd Main and cross Roads in ward No 01. 5)Asplating to Balance Roads in A & B Sector of Yelahanka New Town in Ward No 04)
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-5/1/2017-2018
Mix Type	Plain cement concrete
Contractor	Sri. R.LOKESH
Test Method	IS : 2386 (Part - 3) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse aggregates
Sample No	1
Date	19-Mar-2018

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Weight of SSD sample	W_1 g	761	763	
2	Aggregates Immersed in	W_2 g	2024	2022	
3	Weight of Saturated Aggregate in water	$W_s = W_2 - W_1$	1263	1259	
4	dry aggregate in Air	W_3 g	2059	2047	
5	Volume of the Aggregate	$W_3 - W_s$	796	788	
6	Aggregate	W_4 g	2020	2018	
7	Specific Gravity	$W_4 / (W_3 - W_s)$	2.54	2.56	2.55
8	Apparent Specific Gravity	$W_4 / (W_4 - W_s)$	2.67	2.66	2.66
9	Water Absorption	$(W_4 - W_3) * 100 / W_4$	1.93	1.44	1.69

Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

Note:

- The results indicated above are based on the tests carried out on the sample at site.
- The results relate only to the items tested.
- This test report should not be reproduced except in full, without written approval of this laboratory.
- Any query regarding the report must be reported immediately.

Mecadez Core Technologies Pvt Ltd

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Impact test

Project Name	PACKAGE 5(1) Improvements of Road Adjacent to Yelahanka Lake From Kenchanahalli to Chowdeshwari temple in Ward No.2. 2)Improvements and Asplating to New post office Main Road and cross roads in Ward no 01. 3)Improvements and Asplating to suggappa layout cross roads in ward No 01. 4)Improvements and Asplating to Shanimahathma swamy temple road and surabi layout 2nd Main and cross Roads in ward No 01. 5)Asplating to Balance Roads in A & B Sector of Yelahanka New Town in Ward No 04)
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-5/1/2017-
Mix Type	Plain cement concrete
Contractor	Sri. R.LOKESH
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Coarse aggregates
Sample No	1
Date	19-Mar-2018

Sl. No.	Determination	Unit	Trails	
1	Weight of empty cylinder, w1	gm	960	960
2	Weight of container filled with Aggregate, w2	gm	1304	1306
3	Weight of the Aggregate before compaction, (w2 - w1) = w3	gm	344	346
4	Weight of the sample passing through 2.36 mm IS sieves after Impact, w4	gm	80	81
5	Weight of the sample retained on 2.36 mm IS sieve after Impact, w5	gm	264	265
6	Aggregate Impact Value (w4 / w3) x 100	%	23.26	23.41
7	Specified Limit	%	45.00	

Results: Average Aggregate Impact Value: **23.33 %**

Note:

- The results indicated above, are based on the tests carried out on the sample at site.
- The results relate only to the items tested.
- This test report should not be reproduced except in full, without written approval of this laboratory.
- Any query regarding the report must be reported immediately.

Mecadez Core Technologies Pvt Ltd

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore



An ISO 9001:2015
Quality Management System
Certified Company

Test Report
Concrete Compressive strength

Project Name	PACKAGE 5(1) Improvements of Road Adjacent to Yelahanka Lake From Kenchanahalli to Chowdeshwari temple in Ward No.2. 2)Improvements and Asplating to New post office Main Road and cross roads in Ward no 01. 3)Improvements and Asplating to suggappa layout cross roads in ward No 01. 4)Improvements and Asplating to Shanimahathma swamy temple road and surabi layout 2nd Main and cross Roads in ward No 01. 5)Asplating to Balance Roads in A & B Sector of Yelahanka New Town in Ward No 04)
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-5/1/2017-2018
Mix Type	Concrete(M15)
Contractor	Sri. R.LOKESH
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	1
Date	28-Mar-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m ³)	Max. Load (KN)	Area (m ²)	Compressive Strength (N/mm ²)	Avg. Sample Strength	Avg. Strength
1	20	7	6.57	150*150*150	1946.67	252	0.0225	11.20	11.67	11.68
2	20	7	6.64	150*150*150	1967.41	271	0.0225	12.04		
3	20	7	6.50	150*150*150	1925.93	265	0.0225	11.78		
4	20	7	6.79	150*150*150	2011.85	253	0.0225	11.24	11.69	
5	20	7	6.60	150*150*150	1955.56	261	0.0225	11.60		
6	20	7	6.60	150*150*150	1955.56	275	0.0225	12.22		

Results: 7-days Compressive strength of cement is 11.68 N/mm²

Note:

- The results indicated above are based on the tests carried out on the sample at site.
- The results relate only to the items tested.
- This test report should not be reproduced except in full, without written approval of this laboratory.
- Any query regarding the report must be reported immediately.

For Mecadez Core Technologies Private Limited



[Handwritten Signature]

[Handwritten Signature]
Asst. Executive Engineer
Project Division,
Yelahanka Zone
Bangalore



An ISO 9001:2015
Quality Management System
Certified Company



MECADEZ CORE TECHNOLOGIES PRIVATE LIMITED
PROJECT MANAGEMENT & CONSULTANCY SERVICES

Test Report
Concrete Compressive strength

Project Name	PACKAGE 5(1) Improvements of Road Adjacent to Yelahanka Lake From Kenchanahalli to Chowdeshwari temple in Ward No.2. 2)Improvements and Asplating to New post office Main Road and cross roads in Ward no 01. 3)Improvements and Asplating to suggappa layout cross roads in ward No 01. 4)Improvements and Asplating to Shanimahathma swamy temple road and surabi layout 2nd Main and cross Roads in ward No 01. 5)Asplating to Balance Roads in A & B Sector of Yelahanka New Town in Ward No 04)
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-5/1/2017-2018
Mix Type	Concrete(M15)
Contractor	Sri. R.LOKESH
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	2
Date	28-Mar-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m ³)	Max. Load (KN)	Area (m ²)	Compressive Strength (N/mm ²)	Avg. Sample Strength	Avg. Strength
1	20	7	6.67	150*150*150	1976.30	254	0.0225	11.29	11.76	11.77
2	20	7	6.74	150*150*150	1997.04	273	0.0225	12.13		
3	20	7	6.60	150*150*150	1955.56	267	0.0225	11.87		
4	20	7	6.89	150*150*150	2041.48	255	0.0225	11.33	11.78	
5	20	7	6.70	150*150*150	1985.19	263	0.0225	11.69		
6	20	7	6.70	150*150*150	1985.19	277	0.0225	12.31		

Results: 7-days Compressive strength of cement is

11.77 N/mm²

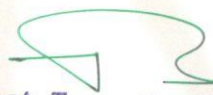
Note:

- The results indicated above are based on the tests carried out on the sample at site.
- The results relate only to the items tested.
- This test report should not be reproduced except in full, without written approval of this laboratory.
- Any query regarding the report must be reported immediately.

For Mecadez Core Technologies Private Limited


Authorised Signatory




Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore